

LIGHT-INTENSITY MEASURING APPARATUS

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Applicant: FUJITSU LTD

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- European: G01J1/42L

Application number: JP19880159353 19880629

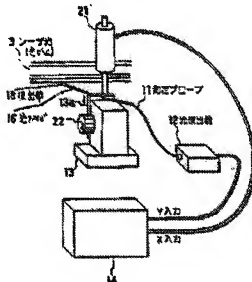
Priority number(s): JP19880159353 19880629

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Abstract of JP2010230

PURPOSE: To measure the intensity of a light beam of multiple reflected light at high resolution by providing an optical fiber wherein a light pickup part for picking up the light at a part where light beams are crossing each other is provided at the tip part and the diameter is made smaller than the light beam, and providing a photodetector.

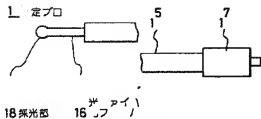
CONSTITUTION: A measuring probe 11 is supported with a supporting member made of Nylon resin so that the tip part of an optical fiber 16 having a small diameter is protruding. The probe 11 is connected to a photodetector 12. A spherical light pickup part 18 is formed at the tip of the optical fiber 16. The probe 11 is supported with an optical-fiber positioning tool 13. The light pickup part 18 is put into multiple reflected light by the movement of the positioning tool 13, and measurement is performed. The position of the light pickup part 18 in measurement can be found with a position detector 21 which detects the probe 11 supported with the positioning tool 13. The intensity of the light which is picked up with the light pickup part 18 efficiently is detected with the photodetector 12. The result is recorded in an X-Y recorder 14.



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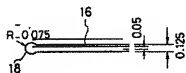
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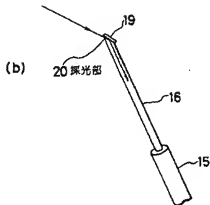
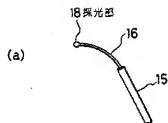
本発明の実施例の
測定プローブの正面図

第2図



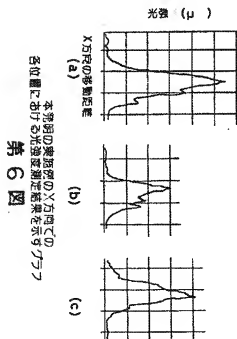
本発明の実施例の
光ファイバの構造説明図

第3図

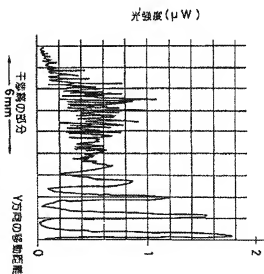


本発明の実施例の
光ファイバ先端の各種形状を示す側视图

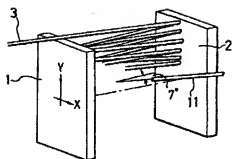
第4図



第5図



第6図



多重反射光学系を示す斜視図

第 7 図